

1c971 U.S. PTO
01/25/02

Attorney Docket No.: 3077/3.DIV

1c971 U.S. PTO
10/054877
01/25/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Prior Application:

Tsung-Fu LEU
Serial No. 09/408,848
Filed: September 30, 1999

Group Art Unit:

3729

Examiner:

C. Hall

For:

INDUCTANCE ELEMENT AND
PREPARATION METHOD THEREOF

REQUEST FOR DIVISIONAL APPLICATION
UNDER 37 C.F.R. 1.53(b)

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

This is a request for filing a Divisional application under 37 C.F.R. 1.53(b) of pending prior application Serial No. 09/408,848, filed on September 30, 1999, entitled **INDUCTANCE ELEMENT AND PREPARATION METHOD THEREOF**, by the inventor named in the prior application.

1. Enclosed is a copy of the prior application, including the Declaration as originally filed, copy of the claim of priority, information disclosure statement and references cited and assignment.

2. The Filing Fee is calculated below:

CLAIMS AS FILED IN THE PRIOR APPLICATION
LESS ANY CLAIMS CANCELED BY AMENDMENT BELOW

| | | | |
|--------------------|--------|-----|----------|
| Basic Fee | | | \$740.00 |
| Total Claims | 5 - 20 | = 0 | |
| Independent Claims | 1 - 3 | = 0 | |
| Total Filing Fee | | | \$740.00 |

3. A check including the amount of \$370.00 is enclosed to cover the Filing Fee.

4. Cancel claims 1-10 before calculating the Filing Fee.

5. Insert claims 11-15 as shown in Appendix A.

6. Amend the specification by inserting, before the first line:

--Related Application

This is a Divisional application of U.S. Serial No. 09/408,848, filed September 30, 1999, entitled
**INDUCTANCE ELEMENT AND
PREPARATION METHOD THEREOF** and
currently pending.--

7. New drawings are enclosed, three (3) sheets, Figs. 1-3.

8. The power of attorney is set forth in the Declaration in the prior application or an associate power of attorney is hereby granted to:

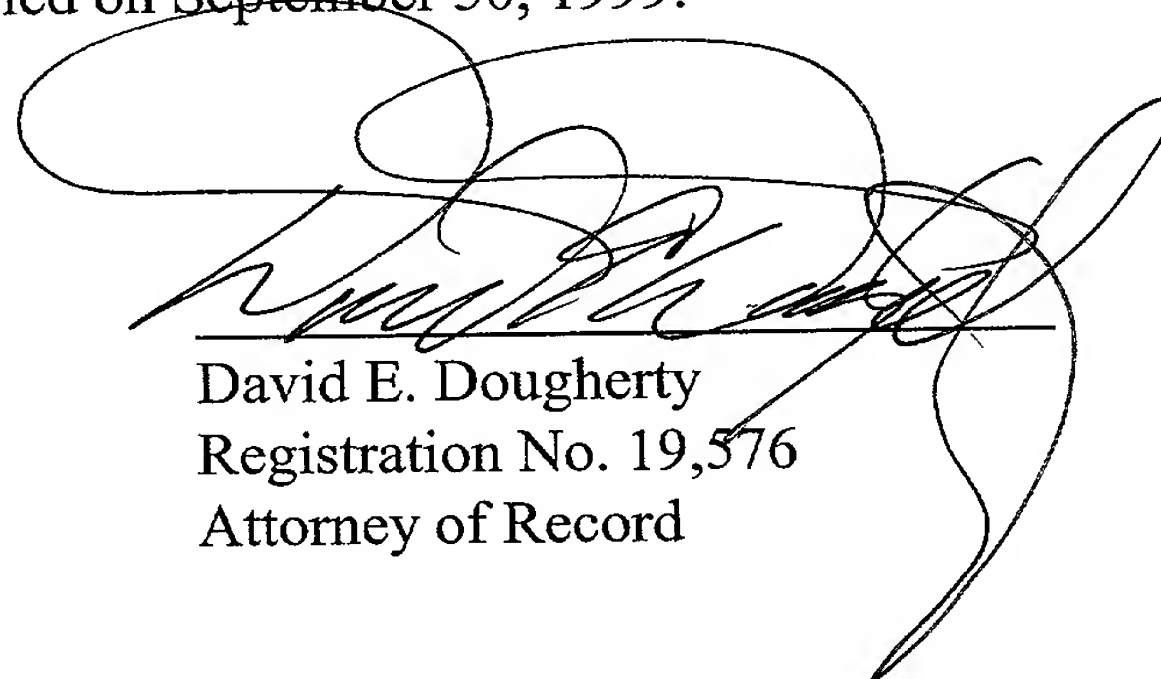
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There is a change in the correspondence address.

Address all future correspondence to:

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(703) 845-0758

The undersigned hereby declares that no matter contained in the specification, including the claims, and drawings filed in the present Divisional application would have been new matter in the prior application Serial No. 09/408,848, as originally filed on September 30, 1999.



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Date: January 25, 2002

APPENDIX A

11. An inductance element prepared in accordance with the steps of:

providing a substrate;

forming at least one coil having an external side on said substrate;

providing a conductive material and connecting the external side of said at least one coil with the conductive material to thereby function as a plating electrode; and,

forming a multilevel multiple-layered magnetic structure of a soft magnetic material on said at least one coil by a plating process;

and wherein the plating process includes the step of forming a layer of the soft magnetic material on said at least one coil, stopping the plating process until an oxidized membrane is formed on the exposed plating, restarting the plating process after the formation of the oxidized membrane and depositing a second plating layer on said first layer and repeating the formation of an oxidized layer and plating steps until the desired thickness and layers of plating are obtained.

12. An inductance element according to claim 11 in which said plating process is interrupted whenever a layer of plating of approximately 2 mm is accomplished.

13. An inductance element according to claim 11 wherein said at least one coil is a wound enameled wire coil, a planar coil or a coil formed on a printed circuit board.

14. An inductance element according to claim 11 wherein said conductive material is metalized such that said multiple-layered magnetic structure may be developed on said at least one coil.

15. An inductance element according to claim 11 wherein said soft magnetic material comprises a 21% Permalloy alloy or a super Permalloy.--